

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1-13 (Cancelled)

14. (Currently Amended) Microwave transmission unit, such as a microwave filter [[(1)]], and including a cabinet [[(2)]] with a first coaxial connector [[(3)]] and a second coaxial connector [[(4)]], where both coaxial connectors include an inner conductor [[(6)]] and an outer conductor [[(7)]], said cabinet [[(2)]] being made of a non-conducting material, such as plastics, and coated with a metal layer, characterized in that wherein

the microwave transmission unit [[(1)]] includes a lightning conductor [[(5)]] which is dimensioned so as to conduct lightning current without being damaged to any serious extent, and which is electrically connected to the outer conductor of the first coaxial connector [[(3)]] and to the outer conductor [[(7)]] of the second coaxial connector [[(4)]], and

the microwave filter includes a cover for closing the cabinet, said cover including the lightning conductor.

15. (Currently Amended) Microwave transmission unit [[(1)]] according to claim 14,
characterised in that wherein

the lightning conductor [[(5)]] includes a metal body of a cross-sectional area of minimum 10 to 200 mm².

16. (Currently Amended) Microwave transmission unit, (1) according to claim 14,
characterised in that such as a microwave filter, and including a cabinet with a first coaxial connector and a second coaxial connector, where both coaxial connectors include an inner conductor and an outer conductor, said cabinet being made of a non-conducting material, such as plastics, and coated with a metal layer, wherein

the microwave transmission unit includes a lightning conductor which is dimensioned so as to conduct lightning current without being damaged to any serious extent, and which is electrically connected to the outer conductor of the first coaxial connector and to the outer conductor of the second coaxial connector.

the first coaxial connector [[(3)]] and the second coaxial connector [[(4)]] are arranged at their respective ends of the cabinet [[(2)]], and that

the microwave filter [[(1)]] includes a cover [[(5)]] for closing the cabinet [[(2)]], said cover including the lightning conductor.

17. (Currently Amended) Microwave transmission unit [[(1)]] according to claim 16,
characterised in that wherein

the cover [[(5)]] is made of solid metal, preferably aluminium.

18. (Currently Amended) Microwave transmission unit [[(1)]] according to claim 16,
characterised in that wherein

the cover [[(5)]] is made of a non-conducting material, such as plastics, and that the lightning conductor is formed as a metal body embedded in the non-conducting material.

19. (Currently Amended) Microwave transmission unit, according to claim 14,
characterised in that such as a microwave filter, and including a cabinet with a first coaxial connector and a second coaxial connector, where both coaxial connectors include an inner conductor and an outer conductor, said cabinet being made of a non-conducting material, such as plastics, and coated with a metal layer, wherein

the microwave transmission unit includes a lightning conductor which is dimensioned so as to conduct lightning current without being damaged to any serious extent, and which is electrically connected to the outer conductor of the first coaxial connector and to the outer conductor of the second coaxial connector, and

the lightning conductor [[(5)]] is electrically connected to the outer conductor [[(7)]] of the first coaxial connector [[(3)]] and to the outer conductor [[(7)]] of the second coaxial connector [[(4)]] through fittings (12, 21), which are screwed into said lightning conductor [[(5)]] and a flange [[(28)]] on the coaxial connectors [[(3, 4)]] by means of screws [[(19)]].

20. (Currently Amended) Microwave transmission unit [[(1)]] according to claim 14,
characterised in that wherein

the first coaxial connector [[(3)]] and the second coaxial connector [[(4)]] are arranged at the same end of the cabinet [[(2)]] and are fastened to a common plate-shaped metal fitting forming the lightning conductor.

21. (Currently Amended) Microwave transmission unit [[(1)]] according to claim 14,
characterised in that wherein

the lightning conductor is formed by a mounting member [[(23)]] for mounting of the microwave transmission unit on a structural part.

22. (Currently Amended) Microwave transmission unit [[(1)]] according to claim 14,
characterised in that wherein

the electric resistance of the lightning conductor [[(5)]] is max. 1 m Ω .

23. (Currently Amended) Microwave transmission unit according to claim 14,
characterised in that wherein

the total electric resistance between the outer conductors of the coaxial connectors [[(3, 4)]] through the lightning conductor [[(5)]] is max. 0.1 Ω , most advantageously max. 0.01 Ω .

24. (Currently Amended) Microwave transmission unit (1) according to claim 14,
characterised in that wherein

the metal coating of the cabinet [[(2)]] is 5 to 200 μm thick.

25. (Currently Amended) Microwave transmission unit according to claim 14 in form of a such as a microwave filter, and including a cabinet with a first coaxial connector and a second coaxial connector, where both coaxial connectors include an inner conductor and an outer conductor, said cabinet being made of a non-conducting material, such as plastics, and coated with a metal layer, wherein

the microwave transmission unit includes a lightning conductor which is dimensioned so as to conduct lightning current without being damaged to any serious extent, and which is electrically connected to the outer conductor of the first coaxial connector and to the outer conductor of the second coaxial connector, and

the microwave filter [[(1)]] is of the cavity resonator type including columnar resonators (25, 26, 27) formed integral with the cabinet [[(2)]].

26. (Currently Amended) Microwave filter [[(1)]] according to claim 25, characterised in that it includes further including a trimming plate [[(11)]] of solid metal with threaded holes for trimming screws [[(11)]], the free ends of which form capacitances together with the resonators (25, 26, 27), and wherein

the trimming plate [[(9)]] forms the lightning conductor.

27. (New) Microwave transmission unit, such as a microwave filter, comprising:

a cabinet including a bottom wall and side walls, the cabinet being made of a non-conducting material, such as plastics, and coated with a metal layer;

a cover closing the cabinet and including a metallic body serving as a lightning conductor; and

first and second coaxial connectors mounted on the cabinet and each including an inner conductor and an outer conductor, wherein

the metallic body is electrically connected to the outer conductor of each the first and second coaxial connectors by means of fittings possessing a good electric conductivity,

the fittings are attached to each of the first and second coaxial connectors and to the metallic body so as to convey lightning currents therethrough,

a total electric resistance between the outer conductors of the first and second coaxial connectors through the metallic body and the fittings is max. 0.1Ω , and

the metallic body and the fittings are provided as integrated parts of the microwave transmission unit.

28. (New) Microwave transmission unit according to claim 27, wherein the metallic body has a cross-sectional area of at least 10-200 mm².

29. (New) Microwave transmission unit according to claim 27, wherein the cover is made of solid metal.

30. (New) Microwave transmission unit according to claim 27, wherein the cover includes a strong bar of metal.

31. (New) Microwave transmission unit according to claim 27, wherein the cover is a trimming cover.

32. (New) Microwave transmission unit according to claim 27, wherein the fittings are screwed into the metallic body and a flange on each of the first and second coaxial connectors by means of screws.

33. (New) Microwave transmission unit according to claim 27, wherein the fittings are approximately 30 mm wide and 0.5 to 2 mm thick.

34. (New) Microwave transmission unit according to claim 27, wherein the fittings are made of one of the group consisting of copper, another metal and a metal alloy.

35. (New) Microwave transmission unit according to claim 27, wherein the first coaxial connector and the second coaxial connector are arranged at a same end of the cabinet.

36. (New) Microwave transmission unit according to claim 27, wherein the electric resistance of the metallic body is max. 1 m Ω .

37. (New) Microwave transmission unit according to claim 27, wherein the microwave transmission unit is a cavity resonator type microwave filter including columnar resonators formed integral with the cabinet.

38. (New) Microwave transmission unit according to claim 27, wherein the total electric resistance between the outer conductors of the first and second coaxial connectors through the metallic body and the fittings is max. 0.01Ω .